

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 12/09/04

Date Received: 12/02/04

Project: Metro Self Monitor, PO# M94758, F&BI 412023

Date Extracted: 12/09/04

Date Analyzed: 12/09/04

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE
FOR TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Results Reported as mg/L (ppm)

| <u>Sample ID</u> Laboratory ID | <u>Chromium</u> | <u>Copper</u> | <u>Nickel</u> | <u>Zinc</u> |
|-----------------------------------|-----------------|---------------|---------------|-------------|
| M94758 412023-01 | 0.39 | 0.38 | 0.38 | <0.05 |
| Method Blank | <0.05 | <0.05 | <0.10 | <0.05 |

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Date of Report: 12/09/04

Date Received: 12/02/04

Project: Metro Self Monitor, PO# M94758, F&BI 412023

**QUALITY ASSURANCE RESULTS
FOR TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Laboratory Code: 412023-01 (Duplicate)

| Analyte | Reporting Units | Sample Result | Duplicate Result | Relative Percent Difference | Acceptance Criteria |
|----------|-----------------|---------------|------------------|-----------------------------|---------------------|
| Chromium | mg/L (ppm) | 0.39 | 0.36 | 8 | 0-20 |
| Copper | mg/L (ppm) | 0.38 | 0.28 | 30 vo | 0-20 |
| Nickel | mg/L (ppm) | 0.38 | 0.38 | 0 | 0-20 |
| Zinc | mg/L (ppm) | <0.05 | <0.05 | nm | 0-20 |

Laboratory Code: 412023-01 (Matrix Spike)

| Analyte | Reporting Units | Spike Level | Sample Result | Percent Recovery MS | Acceptance Criteria |
|----------|-----------------|-------------|---------------|---------------------|---------------------|
| Chromium | mg/L (ppm) | 5 | 0.39 | 103 | 50-150 |
| Copper | mg/L (ppm) | 5 | 0.38 | 103 | 50-150 |
| Nickel | mg/L (ppm) | 10 | 0.38 | 103 | 50-150 |
| Zinc | mg/L (ppm) | 5 | <0.05 | 105 | 50-150 |

Laboratory Code: Laboratory Control Sample

| Analyte | Reporting Units | Spike Level | Percent Recovery LCS | Acceptance Criteria |
|----------|-----------------|-------------|----------------------|---------------------|
| Chromium | mg/L (ppm) | 5 | 97 | 70-130 |
| Copper | mg/L (ppm) | 5 | 97 | 70-130 |
| Nickel | mg/L (ppm) | 10 | 102 | 70-130 |
| Zinc | mg/L (ppm) | 5 | 100 | 70-130 |

vo - The value reported fell outside the control limits established for this analyte.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

412023

SAMPLE CHAIN OF CUSTODY

CM 12/02/04

AT

Send Report To

Company

Address

City, State, ZIP

Phone #

Fax #

SAMPLERS (signature)

PROJECT NAME/NO.

PO #

REMARKS

Page # of

TURNAROUND TIME

☐ Standard (2 Weeks)☐ RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Return samples☐ Will call with instructions

| Sample ID | Lab ID | Date | Time | Sample Type | # of containers | ANALYSES REQUESTED | | | | | | | | | | Notes |
|-----------|--------|---------|-------|-------------|-----------------|--------------------|--------------|---------------|--------------|---------------|-----|--|--|--|--|-------|
| | | | | | | TPH-Diesel | TPH-Gasoline | BTEX by 8021B | VOCs by 8260 | SVOCs by 8270 | HFS | | | | | |
| m 94758 | 01 | 12/2/04 | 12:30 | 6/20 | 1 | | | | | | | | | | | |
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Friedman & Bruya, Inc.
3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

FORMS\COC\COC.DOC

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by:

Received by:

Relinquished by:

Received by:

G. Thompson

Nhan Phan

ACW

Friedman & Bruya

12/2/04

12/2/04

1:10pm

V

AKC-0008008

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
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FAX: (206) 283-5044
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December 9, 2004

DUPLICATE COPY

INVOICE # 04ACU1209-1

Accounts Payable
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M94758, F&BI 412023 - Results of testing
requested by Gerry Thompson for material submitted on December 2, 2004.

1 sample analyzed for Total Chromium, Copper, Nickel and Zinc
by Method 6010B @ \$80 per sample \$ 80.00

Amount Due \$ 80.00

FEDERAL TAX ID # (b) (6)

FRIEDMAN & BRUYA, INC.

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Seattle, WA 98119-2029
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FAX: (206) 283-5044
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December 9, 2004

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on December 2, 2004 from the Metro Self Monitor, PO# M94758, F&BI 412023 project. There are 2 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Charlene Morrow
Chemist

Enclosures
ACU1209R.DOC